



HARTLEY McMASTER LTD
Analytical Management Consultancy




ATKINS
Member of the SNC-Lavalin Group

DfT TTWD User Support - Latest Updates


Ian Wright
Thursday 16th November 2017



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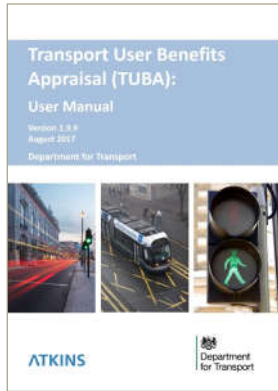


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Update on TUBA (i) Release v1.9.9 (August 2017)


TUBA v1.9.9 Release

- Based on WebTAG Data Book v1.8.1 (Aug'17)
 - Also consistent with v1.8.2 Oct'17 update (Oct'17)
- Revisions
 - Correct single forecast year issue for specific scheme files
 - Reformatted VoT Tables to ensure consistency with forthcoming WITA v2.0 release
 - Expansion for LGV Electric fleet



Transport User Benefits
Appraisal (TUBA):
User Manual
Version 1.9.9
August 2017
Department for Transport

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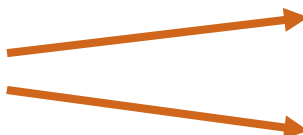


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Update on TUBA (ii)

Value of Time by Distance

- Three Methods:
 - 1 – Continuous Function
 - 2 – Four Distance bands
 - 3 – Average Distance (as per T197)
- Defaults defined in the Economics Parameter File
 - Method 1 for Car & Rail Business only
 - Method 3 for all other Vehicle Types & Purposes
- Reference Distance Matrix 'R'
 - Representative distance for VoT calculation (& reporting)
 - Fixed for all time periods, scenarios, forecast years
 - Recommended: demand-weighted average using base year model distance skims & annualisation factors
 - See User Manual section 5.6.2



$$VTTs_{2018}^D = \frac{U}{(1 + e^{-k(D - x_{inf})})}$$

where:

$VTTs_{2018}^D$ value of time (2010 perceived costs, pence/hr)

D distance (km)

U upper limit (asymptote) of function

x_{inf} distance at the inflection point of curve (where $VTTs = U/2$)

k scale parameter (which is inversely proportional to the steepness of the curve)

- ◆ Distance Band 1: 0-50km
- ◆ Distance Band 2: 50-100km
- ◆ Distance Band 3: 100-200km
- ◆ Distance Band 4: 200+ km

Update on TEMPro

Release v7.2 (March 2017)

TEMPro software provides access to NTEM Datasets

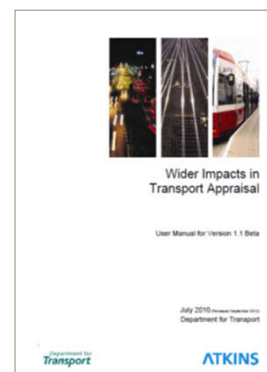
- **Jul'16 - New v7.0**
 - NTEM v7.0 = new 7,700 zone system, 2011 census data, revised trip rates, updated planning data
- **Nov'16 – v7.1 Update**
 - NTEM v7.1 = revised planning data for Wales & updated forecasts
- **Mar'17 – v7.2 Update**
 - NTEM v7.2 = revised process for generating input employment forecasts, updated future dwelling assumptions, updated local plan data
 - See "NTEM72 Release Notes.pdf" for more information



Update on WITA (i)

Current release: v1.2 Beta (January 2015)

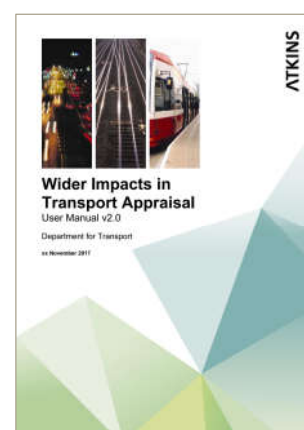
- **Beta release**
- Free licence but no maintenance / support
- Additional guidance provided on using TMZ / LA Equivalence List
- Based on TUBA v1.7
 - Need to update Econ Parameter File
 - Employment projections
- Continued requirement for Users to separately verify calculations
- Memory intensive & difficult to use



Update on WITA (ii)

WITA v2.0 Refresh

- Full re-write using industry-standard developer toolkits
- Implements TAG Unit A2.1 Wider Impacts guidance
- Design philosophy:
 - Shared software platform for TUBA & WITA users
 - Common datasets
- Undergoing Beta testing with the Department
 - Discussions focussed on updating to latest guidance
- Full release with maintenance and support
 - Expected Winter 2017
- Commercial Licence as per TUBA



Update on DIADEM (i)



Current release: v5.0 (February 2011)

- 64-bit version available since April 2013
- New 32/64-bit installers
- Known issues:
 - User Class Skimming
 - Loops through each UC ... but skims all UC each time
 - Will not work with > 8 Assignment UCs
- Available for use on any project / scheme
- Support available to users with current 12-month licence



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Update on DIADEM (ii)



HERTM release: v6.3.4 Beta (October 2017)

- Highways England funded updates for Regional Traffic Models

Recent Changes

- v6.3.3 published in December 2016
 - *LogNormal distribution* OD-based occupancy
 - Peak Period to Peak Hour factors Sub-Area GAP convergence
- v6.3.4 published in October 2017
 - Revised peak hour / peak profile conversion
 - No impact on average peak hour HERTMs
 - Will affect derivative local models if they have explicitly modelled individual peak hours / shoulders (with PASSQ etc)



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Update on DIADEM (iii)



Access to any HERTM releases

Restricted Access:

- May only be used on Highways England RTM schemes
 - prior approval required
- Also requires current DIADEM v5.0 12-month licence



Beta:

- Continue as a Beta release